INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP2005/002038

A.		ATION OF SUBJECT	
	Int.Cl7	D01F6/18,	9/22

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

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Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ D01F6/18, 9/22

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho 1922-1996 Jitsuyo Shinan Toroku Koho 1996-2005

Kokai Jitsuyo Shinan Koho 1971-2005 Toroku Jitsuyo Shinan Koho 1994-2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Further documents are listed in the continuation of Box C.

document defining the general state of the art which is not considered to be of particular relevance

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	JP 2000-345435 A (Nippon Steel Corp.), 12 December, 2000 (12.12.00), Claims; Par. No. [0033] & US 6187434 B1 & US 6524501 B1	1-6,26-29 1-6
X Y	JP 10-226918 A (Toray Industries, Inc.), 25 August, 1998 (25.08.98), Claims; examples; drawings & WO 1998/036113 A1 & EP 909842 A1 & US 6485595 B1	16-25,29,30 7-15,26-28
Y	JP 2001-355121 A (Toho Tenakku Kabushiki Kaisha), 26 December, 2001 (26.12.01), Claims (Family: none)	1-15,26-28

"E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone	
cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family	
Date of the actual completion of the international search 10 May, 2005 (10.05.05)	Date of mailing of the international search report 24 May, 2005 (24.05.05)	
Name and mailing address of the ISA/ Japanese Patent Office	Authorized officer	
Facsimile No.	Telephone No.	

See patent family annex.

later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

Special categories of cited documents:

REST AVAILABLE COPY

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International application No.
PCT/JP2005/002038

ategory*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 10-121325 A (Toray Industries, Inc.), 12 May, 1998 (12.05.98), Claims & EP 835953 A2 & US 6294252 B1	1-30
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